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COMP90082-2024-lp-koala

Project Introduction

Project Overview

The DLASSP project is conceived as a comprehensive and customisable LMS, tailored specifically for a unique user system consisting of Admins, Researchers, and Raters. The platform is intended to provide a versatile digital environment where the users can manage, participate in, and evaluate a variety of educational and assessment-oriented projects. Each user group is granted access privileges aligned with their operational scope and responsibilities to facilitate efficient project management, content creation, user interaction, and data analysis.

Trello Link

 [COMP90082](#)

Github Link

 <https://github.com/COMP90082-2024-SM1/LP-Koala> [Connect your Github account](#)

Our Team

Name	Role	Email
Weiyang Wu	Product Owner	weiyang1@student.unimelb.edu.au
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Yujin Du	Back-end Developer	yujind1@student.unimelb.edu.au
Qinglin Zhao	Back-end Developer	qinglinz@student.unimelb.edu.au

Stakeholders

Name	Role	Email
Sally O'Hagan	Client	sohagan@unimelb.edu.au
Ivy Chen	Client assistant	ivy.chen@unimelb.edu.au
Lin Li	Supervisor	lin.li10@unimelb.edu.au

Current Background

The recent increase in demand for digital platforms that support detailed project management and evaluation, particularly in education, underscores the need for an advanced LMS. This system would extend beyond traditional LMS features to meet the intricate requirements of researchers and raters. Current LMSs lack these specialised tools, highlighting a market opportunity for an enhanced product that fills this niche effectively.

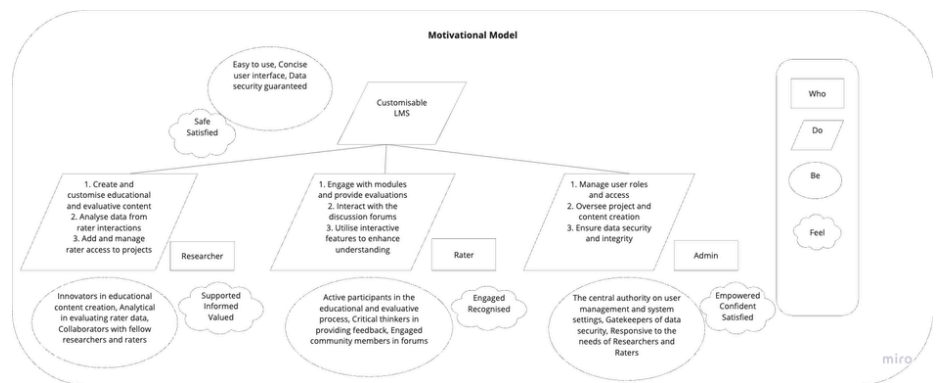
Project Goals

- **Develop a Customisable and Secure LMS:** Create a platform that can be tailored to the roles of Admin, Researchers, and Raters, ensuring secure and correct access to content and features according to user roles.
- **Enable Efficient Project and User Management:** Implement comprehensive administrative functions for user management.
- **Facilitate Specialised Content Creation and Management:** Equip researchers with advanced tools for creating, editing, and managing educational content.
- **Enhance Rater Interaction and Engagement:** Allow raters to engage with the content through interactive activities and provide meaningful feedback.
- **Ensure Data Security and Integrity:** Prioritise the protection of sensitive information.
- **Establish a Collaborative Environment:** Build forums where users can share insights, discuss evaluations, and contribute to the collective knowledge base.

Out Of Scope

- Enable admin/researchers to communicate with selected raters only in the forums
- Enable researchers to lock raters' ratings for a while

Motivational Model



Do/Be/Feel

Role	Do(Functional Goal)	Be(Quality Goal)	Feel(Emotional Goal)
Admin	<ul style="list-style-type: none">• Manage user roles and access• Oversee project and content creation• Ensure data security and integrity	<ul style="list-style-type: none">• The central authority on user management and system settings• Gatekeepers of data security• Responsive to the needs of Researchers and Raters	<ul style="list-style-type: none">• Empowered to maintain a robust and secure system• Confident in managing a user-friendly platform• Satisfied with the system's performance and reliability
Researcher	<ul style="list-style-type: none">• Create and customise educational and evaluative content• Analyse data from rater interactions• Add and manage rater access to projects	<ul style="list-style-type: none">• Innovators in educational content creation• Analytical in evaluating rater data• Collaborators with fellow researchers and raters	<ul style="list-style-type: none">• Supported by tools that facilitate creative content development• Informed by comprehensive data analytics• Valued for their contributions to the project's success
Rater	<ul style="list-style-type: none">• Engage with modules and provide evaluations• Interact with the discussion forums• Utilise interactive features to enhance understanding	<ul style="list-style-type: none">• Active participants in the educational and evaluative process• Critical thinkers in providing feedback• Engaged community members in forums	<ul style="list-style-type: none">• Engaged by interactive and relevant content• Recognised for their input and evaluations• Part of a larger community of practice

Do/Be/Feel List

Persona

Persona: Dr.Elena Torres

Demographics

Age: 38

Education: PhD in Educational Psychology

Occupation: Senior Researcher at an Educational Assessment Organisation



"I need an LMS that understands the complexity of educational assessment—it should be secure, adaptable, and insightful."

Role: Researcher

Behaviors & Habits

- Elena often juggles multiple projects, requiring her to be organised and efficient.
- She prefers platforms which are intuitive and require minimal training for new users.
- She values systems that offer detailed analytics and reporting tools.
- Elena prioritises data security and prefers systems with strong access control measures.

Pain Points & Frustrations

- Current LMS platforms do not cater to the nuanced needs of her assessment projects.
- Collaboration with raters is often cumbersome due to inflexible platforms.
- Concerns over the security of confidential assessment data on generic LMS solutions.
- Difficulty in analysing data from raters in a meaningful and efficient way.

Needs & Goals

- To streamline the development and management of assessment projects.
- To collaborate efficiently with a team of raters and fellow researchers.
- To securely handle sensitive assessment data and materials.
- To effectively analyse rater data to inform educational standards and practices.

miro

Persona: Prof.Emma Green

Demographics

Age: 45

Education: PhD Language Teaching and Learning

Occupation: IT Project Manager



"I aim to streamline user management processes and ensure the highest level of security for the platform."

Role: Admin

Behaviors & Habits

- Emma usually has to spend the majority of her time on research.
- She prefers platforms which are intuitive and require minimal training for new users.
- She prefers practical solutions that are easy to implement and maintain.
- Emma is proactive and enjoys staying updated on the latest technology trends and security protocols.

Pain Points & Frustrations

- Current LMS platforms do not meet her requirements as it is hard to use for newcomers.
- Collaboration with raters is often cumbersome due to inflexible platforms.
- faces challenges related to balancing usability with strict security requirements.
- The difficulty in managing users and the learning materials.

Needs & Goals

- Emma is willing to invest in software solutions that meet her organization's needs and align with its security standards.
- she prioritizes reliability, scalability, and ease of use when considering new IT systems.
- Emma values collaboration and open communication.
- Emma appreciates tools that allow her team to work efficiently and securely, even when working remotely.

miro

Persona: Mr.Rupter Goldie

Demographics

Age: 37

Education: **MA of linguistics**

Occupation: **Professional Linguist at the Research Centre at the University of Melbourne**



"I work as a linguist specializing in language assessments. Moreover, I value confidentiality and adheres to strict ethical standards in my work.."

Pain Points & Frustrations

- He encounters challenges related to managing time efficiently while completing multiple rating tasks within project deadlines.
- He also needs user-friendly tools that facilitate the rating process and provide clear instructions for each task.
- Concerns over the security of confidential assessment data on generic LMS solutions.
- The difficulty on conducting a rating operations or undo the rating in the existing platform.

Role: Rater

Behaviors & Habits

- Rupter usually has to spend the majority of her time on his career work.
- He is dedicated to their work and enjoys engaging in intellectually stimulating activities.
- He prefers structured environments that allow them to focus on tasks with minimal distractions.
- Rupter takes security matters as the highest priority because it involves other privacy and sensitive data.

Needs & Goals

- Rupter aims to contribute valuable insights to research projects by providing accurate ratings and feedback.
- He is likely to adopt software solutions that streamline the rating process and provide comprehensive support for their research endeavors
- To securely handle sensitive assessment data and materials.
- He prioritizes platforms that offer user-friendly interfaces and robust security features to safeguard confidential data.

miro

User Stories

We use story points from 1 to 5 to estimate the complexity, effort, and time required to complete a task or feature, where each number represents an increasing level of complexity and effort needed. Story point 1 means it is trivial to complete a task while story point 5 demonstrates extremely difficult to finish a task.

Epic 1 - User Management

No.	As a <Role>	I want to <Do something>	So that <achieve some goals>	Priority	Task Size
1	Users (Admin/Researcher/Rater)	Log into account	I can access account information/ change profile etc..	High	2
2	Users (Admin/Researcher/Rater)	Update passwords	I can keep my data and my account safe	High	1
3	Users (Admin/Researcher/Rater)	Edit names	A new name can be displayed on discussion forums and all the old posts	Medium	1
4	Admin	Add or remove users with assigned roles	I can create admins for administration. Create researchers for projects. Create raters for rating.	High	2
5	Admin	Access all the projects, forum posts, user info	I can have all access to manage everything.	High	2
6	Admin/Researcher	See the allocated raters from the projects created by me (Implied by requirements)	I know who has been assigned to a specific project	Medium	2
7	Researcher	Add/remove raters	I can allocate raters in their allocated projects	High	1
8	Rater	See which projects allocated to me (Implied by requirements)	I know what projects I can have access to and which activities I can complete	Medium	3

Epic 2 - Project and Module Management

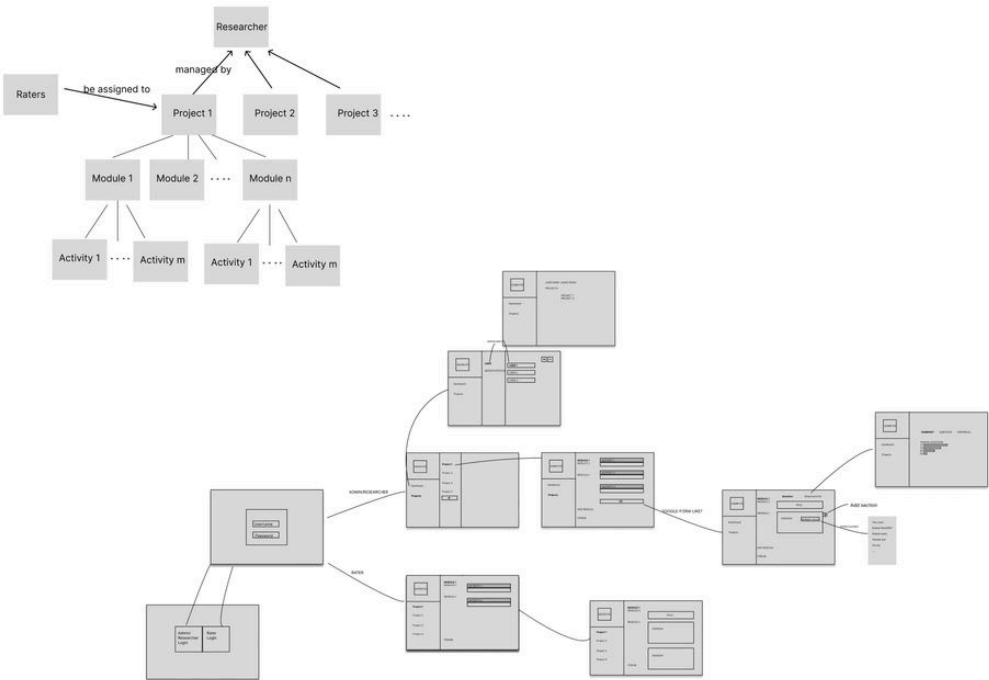
No.	As a <Role>	I want to <Do something>	So that <achieve some goals>	Priority	Task Size
1	Researcher	Create a new project and manage it	Different raters will have different access to the projects	High	2
2	Researcher	Make project available at a specific time	Raters can have access during a specific period of time	High	1
3	Researcher	Embed downloadable Word, PDF documents, audio, video, simple surveys and sample texts when creating activities	The activities will be more interactive for raters.	Medium	5
4	Researcher	See a overall summary of frequency of rating levels for each sample	I can know how each sample is rated	Medium	2
5	Researcher/Admin	Download the data (rater's input) from the modules	I can analyse the downloaded data	High	1
6	Rater	Enter a rating below a sample text	I can accurately assess the sample	High	1
7	Rater	Return to my ratings and make changes as needed	ensuring flexibility in my assessments	High	2
8	Rater	Download all the text with highlights included	I can compare two descriptions and highlight their differences	High	1
9	Rater	Download the highlight text	I don't have to return to the system	Low	1
10	Rater	Reorder chunks of text on the page	I can organise the information in a way that suits my needs	Medium	3
11	Rater	View rating statistics	I can gain overall assessment trends	Medium	2

Epic 3 - Forum Management

No.	As a	I want to	So that	Priority	Task Size
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	<Role>	<Do something>	<achieve some goals>		
1	Admin/Researcher	Create threads for particular topic discussion.	Raters will be allowed to post their discussion on that threads to share their thoughts.	Medium	3
2	Rater/researcher	Post my ideas/answer on a thread with specific topic.	I can share my ideas to others and look for others' answer as well.	Medium	2
3	Researcher/rater	Reply others' posts.	Join in a discussion to share my answer or ask question further.	Medium	3
4	Researcher/admin	Manage existing posts (Delete, mark)	Duplicated post can be removed, and important post can be highlighted.	Low	2
5	Researcher	Select some activities then transfer their answers to the thread automatically.	Others will be able to reply to those automatic posts.	Low	3
6	Rater	Request admin/researcher to anonymized my response to a particular post.	Keep my privacy.	Very low	4

Prototype



Plan For Sprint 2 and Sprint 3

As we already have a better overall understanding of the current project through the communication with our client and with the initial requirements elicitation completed, we are one step closer to start developing the system in the next 2 sprints. This documentation will mainly discuss what should be done in each sprint and how we will develop the system.

Requirements to Develop

During Sprint 2, our team will develop the user management and project/module management functionalities outlined in the provided epics. Here's the plan for Sprint 2:

User Management (Epic 1 From User story 1 to 8):

- Implement user (Admin/Researcher/Rater) login and password management functionalities to ensure secure access and account protection.
- Allow users (Admin/Researcher/Rater) to edit their profiles, including changing names and other details.
- Develop features for adding/removing users, managing permissions, and access control.

Project/Module Management (Epic 2 From User story 1 to 11):

- Enable researchers to create and manage projects, including scheduling, embedding capabilities, and statistical features.
- Facilitate effective data rating for raters, allowing them to enter and edit ratings, highlight/reorder text, and rating offline.

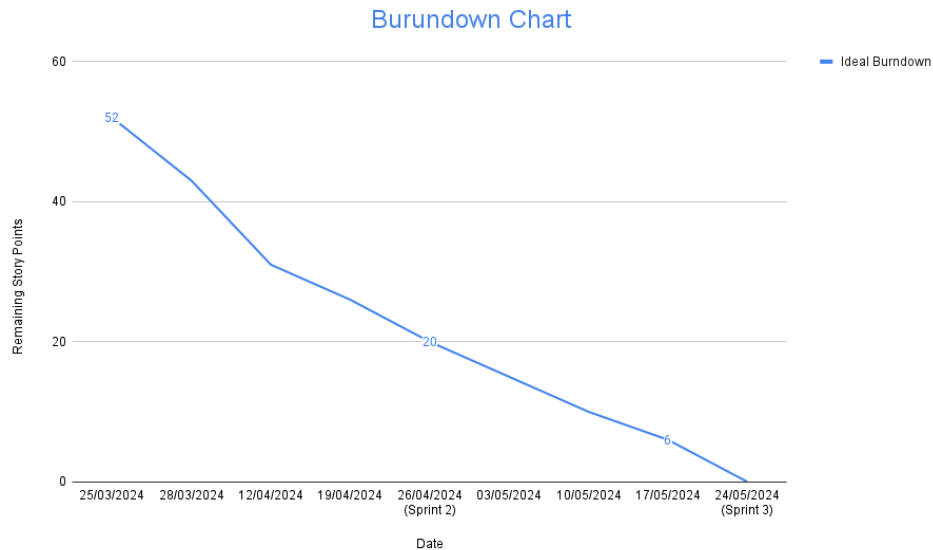
During Sprint 3, we will focus on enhancing the forum management functionalities as outlined in Epic 3. Here's the plan for Sprint 3:

Forum Management (Epic 3 From User story 1 to 6) :

- Admins/researchers can create discussion threads and manage and maintain existing posts.
- Researchers/raters can post their ideas and answers, and reply to others' posts.
- Researchers can transfer their answers to the thread automatically.
- Raters can request the anonymisation of their responses.

Our team has estimated the task sizes and prioritised tasks based on their importance and complexity, ensuring timely delivery and coordination among different functionalities (For more details, see [User Stories](#)). Additionally, appropriate testing and bug fixing will be carried out to ensure product quality and stability.

Below is the burndown chart that we came up with, which indicates the project's velocity and ideal burndown.



Tools and Technologies

After a discussion within our team, we decided to use React.js as our front-end development framework, Express.js as our back-end framework and MongoDB as our database as it works well with Express.js.

React.js is a popular front-end framework that allows us to create reusable UI components for different parts of the website and it also makes it simpler for us to manage the state of the components.

Express.js is a back-end framework for Node.js that simplifies routing, middleware usage and handling HTTP requests. Using Express.js also allows us to use the same language (Javascript) both in front-end and back-end and it will make the development process a lot easier.

In terms of collaboration, we will use Git to manage the version of our codebase and GitHub to host our remote repository. Some features from Git enable better and smoother collaboration. Committing allows us to make changes to our local copy of the codebase and then commit and upload these changes to the remote repository so that other team members can also see the changes. Branching allows us to work on our own branch. For example, if 2 independent features need to be developed simultaneously, we can have 2 different branches for different features so that we can improve the efficiency of the development

Client Meetings

14/03/2024 Client Meeting

Date : 14/03/2024

Time: 2:00PM- 2:50PM

Participants: Sally O'Hagan (Client) , Haofeng Chen, Yujin Du, Gaoyuan Ou, Mingxin Li, Weiyang Wu, Qinglin Zhao

Meeting Topic: Discuss and clarify requirements, Walk through motivational models, personas, user stories and low prototypes.

Time	Item	Presenter	Notes
2:05-2:06	Introduction	Weiyang Wu	<ul style="list-style-type: none">• Introduction to the meeting agenda. Request for recording.
2:06 - 2:10	Motivational models and persona	Haofeng Chen	<ul style="list-style-type: none">• Walks through the motivational models and persona
2:10 - 2:16	Persona	Yujin Du	<ul style="list-style-type: none">• Walks through to the persona• Clarification on scalability: increase in functionalities and capacities of the functions as the number of users goes up e.g. the product is still responsive if the number of users increases from 10 to 100000.
2:16 - 2:22	Epic 1 Clarification	Weiyang Wu	<ul style="list-style-type: none">• Walks through Epic 1 user management• Clarify on admin's "all access"
2:22 - 2:25	Epic 2 Clarification	Gaoyuan Ou	<ul style="list-style-type: none">• Walks through Epic 2 Researcher requirement
2:25 - 2:26	Epic 2 Clarification	Mingxin Li	<ul style="list-style-type: none">• Walks through Epic 2 Rater requirement
2:26 - 2:31	Clarifications	Sally	<ul style="list-style-type: none">• Clarification on re-ordering chunk of texts: more like re-ordering some pieces of cards that contain texts.• Clarification on rater requirements: must have some ways for the raters to interact with the ability. (re-ordering, highlighting, downloading...)• Clarification on "all access": There will be more clarification to what it means that "admin has all access", how could admins differentiate from researchers? Does an admin also have researchers' functionalities?
2:31 - 2:35	Epic 3 Clarification	Qinglin Zhao	<ul style="list-style-type: none">• Walks through Epic 3 forum

2:35 - 2:44	Clarifications	Sally	<ul style="list-style-type: none"> • Clarification of anonymity : raters have to request for anonymity from admin and researcher. No raters can switch to anonymous by themselves. • Clarification on forum: forum for both standardization and familiarization. • Clarification on standardization and familiarization (starting from 31:20): give raters some sample tests first, raters complete the tests, discuss on the forum. When in standardization, raters won't have that kind of conversation but will provide reasons for their ratings. • Discussion on client feedback • Discussion on priority to see if there is discrepancy
2:44 - 2:49	Low prototype	Weiyang Wu	<ul style="list-style-type: none"> • Weiyang introduces a low prototype. • Suggestion on prototype: maybe to have a forum under each activity instead of under each module. • Clarification on data: sample data to be given to understand what an activity would look like.
2:49-2:51	Question and Answer	All members	<ul style="list-style-type: none"> • Clarification on data security: mainly concern about raters having unauthorized access to other confidential documents. Raters may be asked to read and sign a letter of agreement in regards to confidentiality before doing tests.

Action items:

- Shift of priority of the user stories: focus more on the epic 2 features. (Especially downloading-data feature, important, must-have)
- Edit rater anonymous functionality: raters have to request for anonymity.

Links:

- Due to the limited access of the AI tool, around 5 minutes of audio was cut off. No video provided by the AI tool as well.
- Further meetings will not have this issue again and will be recorded locally via zoom recording.
- [Audio link via Google drive \(access via unimelb email address\)](#)
- [Audio link via Otter](#)

07/03/2024 Client Meeting

Date: 07/03/2024

Time: 11:00AM-11:26AM

Location: ZOOM

Participants: Clients, Mentor, our team, and the other team

Meeting Topic: First Client Meeting of LP

Topic	Content
1. See the clients	<ul style="list-style-type: none">• Provide a brief introduction to the project.• Browse the project information document.• Know the requirements of this project.
2. Q&A	

[Video recording link](#)

Mentor Meetings

06/03/2024 Mentor Meeting

Date: 06/03/2024

Time: 2:00PM-2:32PM

Location: Zoom

Participants: Mentor, our group, the other group

Meeting Topic: Mentor meeting and introduction

Topic	Content
Meeting requirements	<ul style="list-style-type: none">• Write a Minute of Meeting for each mentor, client, stand-up meeting. (Can be done in a rolling-basis)• Attend client meetings to understand their requirements, refine the requirements in the meeting• Mentor only attends the client meeting on this Thursday, then will not attend anymore client meetings
Emailing	<ul style="list-style-type: none">• Assign one person specifically to communicate with the client and the mentor via email. When sending emails to the client, CC to the mentor• Email template: https://cis-projects.github.io/project_based_course_notes/extras/templates_for_comm.html• Do not send emails after working hours• After client meetings, we can send a minute of meeting to the mentor(optional?)
Tasks	<ul style="list-style-type: none">• Decide on task tracking tool, and invite the mentor as well• Complete mentor weekly meeting link:https://www.when2meet.com/?24011586-qEjkc
Introduction/Ice breaker	N/A
Others	<ul style="list-style-type: none">• Make documents clean, presentable, understandable, because mentors from other groups will know our progress and mark our project through these documents

12/03/2024 Mentor Meeting

Date: 12/03/2024

Time: 1:30pm-2:00pm

Location: Zoom

Participants: Haofeng Chen, Lin Li, Weiyang Wu, Gaoyuan Ou, MingxinLi, Yujing Du, Qinglin Zhao

Meeting Topic: Weekly meeting with mentor

Topic	Content
1. Stand up	<ul style="list-style-type: none">• Haofeng Chen and Yujin Du had a discussion and completed the project overview, background, and goals.• Weiyang Wu arranged the meeting with the client for this Thursday 2.pm and continued working on the user stories for Epic 1.• Qinglin Zhao completed the user stories for Epic 3.• Mingxin Li and Gaoyuan Ou had a discussion and continued working on the user stories for Epic 2.
2. Mentor suggestion on Project	<ul style="list-style-type: none">• Discuss Confluence structure: Each sprint can be divided into Planning, Review, Retrospective. Development Environment, Quality, Meetings.• Meeting minutes should be uploaded on Confluence.• Proper project structure should be created on Github.• Keeping using and updating the Trello board.• Can make an acceptance document to get consent from the client about the requirement on Trello.

19/03/2024 Mentor Meeting

Date: 19/03/2024

Time: 1:30pm-2:00pm

Location: Zoom

Participants: Haofeng Chen, Lin Li, Weiyang Wu, Gaoyuan Ou, MingxinLi, Yujing Du, Qinglin Zhao

Meeting Topic: Weekly meeting with mentor

Topic	Content
1. Stand up	<ul style="list-style-type: none">• The team introduces its progress
2. Mentor suggestions on project	<ul style="list-style-type: none">• Can use vertical templates on the Personas• Personas and background can have vertical layout by making them separate pages• Confluence structure: not following the sprint 1,2,3... But instead follow the SDLC structure.• To-Be-Feel: can improve structure, share an example• Task size use user story point, explain what the story point represent• Planning: need a timeline• Github: Project overview, project goal, team introduction, change log, workflow, e.g. many branches, how to merge, what does the merge mean? Branching and merge, pull, review strategies, remember to update• Trello: write a column to explain the trello tasks. Suggestion: only ToDo, Doing, Done, extra info in the card. Can add story points into descriptions.• Introduce the technical skills, Suggestion: can write a summary in the plan, and then write details in a separate section. Analyze the technologies used. Discuss pros and cons

Team Meetings

13/03/2024 Team Meeting

Date: 13/03/2024

Participants: Weiyang Wu, Haofeng Chen, Gaoyuan Ou, Mingxin Li, Qing Lin, Yujin Du

Meeting Topic: Discuss the user stories that we have made so far; Discuss the target user personas

Time	Presenter	Notes
19:00	Weiyang and other 3 teammates	About the user stories
19:30	Haofeng Chen and Yujin Du	Discuss about the target user personas

Action items:

- Figure out the current problems and discuss them together.
- Demonstrate the current work to the clients.

Decisions:

- Confirm the decisions we made with stakeholders tomorrow.
- Refine the user stories.
- Introduce the personas to clients at the next meeting with clients.

11/03/2024 Team Meeting

Date: 11/03/2024

Time: 14:00 - 15:00

Location: Old Engineering Building Meeting Room G79

Participants: Gaoyuan Ou, Mingxin Li, Qinglin Zhao, Weiyang Wu, Yujin Du

Meeting Topic: Requirement analysis and user stories

Topic	Content
1. Questions from the requirements	1. Discussed some questions or confusions raised from the requirement document from the client. 2. Some still remained unresolved and should be mentioned in the next client meeting.
2. Allocate epics for user stories	1. Discussed on how to convert requirements into epics. 2. Assign people into epics for user stories.
3. Decided time for next meeting	1. Finalised the time for the next meeting, which is 7pm 13/03/2024.

09/03/2024 Team Meeting

Time: 2p.m.

Location: Online

Participants: Haofeng Chen, Weiyang Wu, Mingxin Li, Guoyuan Ou, Qinglin Zhao

Meeting Topic: Sprint 1 plan

Topic	Decision Making	Actions
People for Analysis of requirements	Qinglin Zhao Weiyang Wu Gaoyuan Ou Mingxin Li	Prepare user story
People for Background description	HaoFeng Chen YuJin Du	Prepare project overview, background and goals
People for Confluence	WeiYang Wu	Organize Confluence
Meeting for analysis of requirement	Hold on 11/3/2024 2p.m. 3 in person with Zoom	Hopefully finish requirement analysis and start to plan next sprints